

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P834466

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3LO-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834466
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3LO-27-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

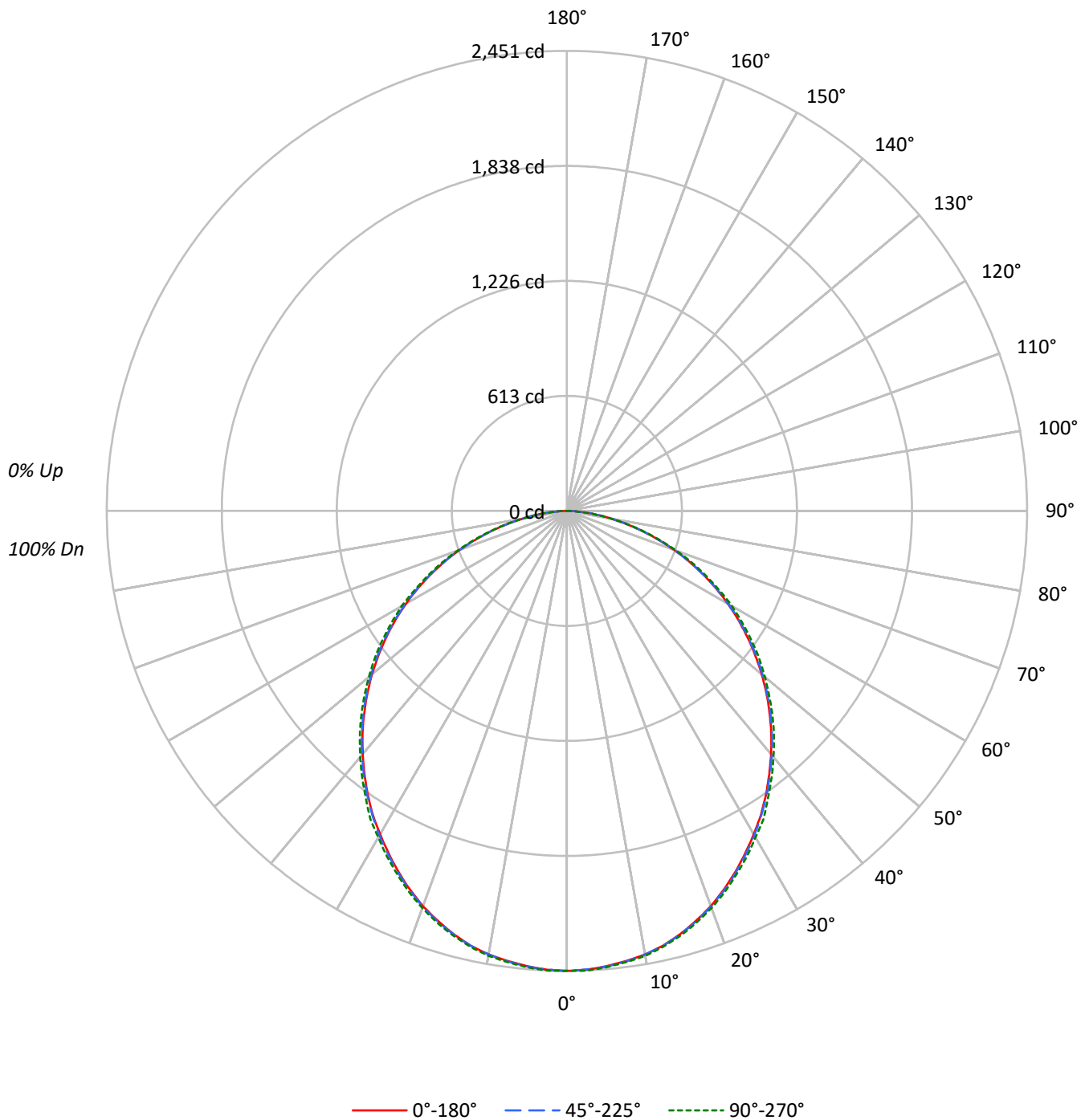
Lumens per Lamp: N/A
Luminaire Lumens: 6621.7 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6595	6595	6595
5°	6577	6583	6591
10°	6556	6557	6577
15°	6502	6506	6525
20°	6418	6425	6448
25°	6301	6317	6345
30°	6183	6204	6241
35°	6070	6085	6134
40°	5942	5962	6015
45°	5812	5837	5897
50°	5671	5696	5763
55°	5510	5537	5627
60°	5328	5349	5469
65°	5095	5110	5208
70°	4782	4786	4890
75°	4347	4330	4431
80°	3735	3719	3781
85°	2899	2850	2865

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	3.5
10°-20°	658.7	9.9
20°-30°	980.6	14.8
30°-40°	1159.7	17.5
40°-50°	1183.9	17.9
50°-60°	1056.5	16.0
60°-70°	795.8	12.0
70°-80°	443.8	6.7
80°-90°	111.2	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1870.9	28.3
0°-40°	3030.6	45.8
0°-60°	5271.0	79.6
0°-90°	6621.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6621.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2451	2451	2451	2451	2451	
5°	2435	2439	2437	2437	2440	231
15°	2334	2336	2335	2337	2342	658
25°	2122	2125	2127	2133	2137	978
35°	1848	1846	1852	1860	1867	1156
45°	1527	1527	1534	1541	1550	1178
55°	1174	1173	1180	1188	1199	1050
65°	800	797	803	810	818	791
75°	418	414	416	419	426	443
85°	94	91	92	91	93	113
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2450.6	2450.6	2450.6	2450.6	2450.6
2.5°	2446.5	2450.6	2445.5	2446.5	2451.1
5°	2434.8	2439.4	2436.9	2437.4	2439.9
7.5°	2418.6	2424.7	2421.1	2422.1	2424.7
10°	2399.3	2403.9	2399.8	2402.4	2406.9
12.5°	2371.9	2373.9	2371.9	2372.9	2378.0
15°	2333.9	2336.4	2335.4	2337.4	2342.0
17.5°	2289.2	2292.3	2291.8	2295.8	2299.4
20°	2241.0	2241.5	2243.6	2247.6	2251.7
22.5°	2184.2	2185.7	2187.7	2193.3	2197.4
25°	2122.3	2124.8	2127.4	2133.0	2137.0
27.5°	2056.8	2059.4	2062.9	2069.0	2075.6
30°	1989.9	1989.9	1996.5	2002.6	2008.6
32.5°	1922.4	1919.9	1925.9	1933.6	1948.3
35°	1847.8	1845.8	1852.4	1859.5	1867.1
37.5°	1770.2	1768.7	1776.3	1783.9	1791.0
40°	1691.5	1689.5	1697.1	1704.7	1712.3
42.5°	1610.9	1609.9	1617.0	1624.6	1632.7
45°	1527.2	1526.7	1533.8	1541.4	1549.5
47.5°	1441.9	1440.9	1448.0	1456.1	1463.2
50°	1354.7	1353.6	1360.7	1368.9	1376.5
52.5°	1264.9	1264.9	1271.5	1278.6	1290.2
55°	1174.5	1173.0	1180.1	1188.2	1199.4
57.5°	1083.2	1081.2	1087.8	1095.9	1106.1
60°	989.9	987.8	993.9	1002.0	1016.2
62.5°	895.5	892.5	898.5	906.1	914.8
65°	800.1	797.1	802.6	809.8	817.9
67.5°	704.2	700.7	706.2	712.3	719.9
70°	607.8	604.3	608.3	614.4	621.5
72.5°	511.9	508.4	511.9	514.5	523.1
75°	418.1	414.5	416.5	418.6	426.2
77.5°	326.7	323.2	327.2	328.3	332.8
80°	241.0	237.4	240.0	240.5	244.0
82.5°	162.9	159.8	163.4	160.8	163.9
85°	93.9	91.3	92.3	91.3	92.8
87.5°	37.0	35.0	35.5	33.5	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)